

ABSTRACT

A novel polypeptide which is useful in screening of an agent for improving insulin resistance and an agent for
5 improving glucose metabolism, a polynucleotide encoding the polypeptide, an expression vector comprising the polynucleotide, and a cell transformed with the expression vector are disclosed. The polypeptide is a protein
expressed in skeletal muscle. When the protein is
10 overexpressed, incorporation of sugar into a cell is inhibited.

A method for screening of an agent for improving insulin resistance and/or an agent for improving glucose metabolism in which the polypeptide is used, and a method
15 for producing a pharmaceutical composition for insulin resistance and/or glucose metabolism improvement comprising a substance obtained according to the method for screening as an active ingredient are also disclosed.